

Analytic-Bilinear Approach to Integrable Hierarchies (Hardback)

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Reviews

An extremely wonderful pdf with lucid and perfect explanations. I could possibly comprehended every little thing out of this created e pdf. Once you begin to read the book, it is extremely difficult to leave it before concluding. (Janie Wilkinson)

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ANALYTIC-BILINEAR APPROACH TO INTEGRABLE HIERARCHIES (HARDBACK)



Springer, Netherlands, 1999. Hardback. Condition: New. 1999 ed.. Language: English . Brand New Book ***** Print on Demand *****. The subject of this book is the hierarchies of integrable equations connected with the one-component and multi component loop groups. There are many publications on this subject, and it is rather well defined. Thus, the author would like t.o explain why he has taken the risk of revisiting the subject. The Sato Grassmannian approach, and other approaches standard in this context, reveal deep mathematical structures in the base of the integrable hi- erarchies. These approaches concentrate mostly on the algebraic picture, and they use a language suitable for applications to quantum field theory. Another well-known approach, the a-dressing method, developed by S. V. Manakov and V.E. Zakharov, is oriented mostly to particular systems and ex- act classes of their solutions. There is more emphasis on analytic properties, and the technique is connected with standard complex analysis. The language of the a-dressing method is suitable for applications to integrable nonlinear PDEs, integrable nonlinear discrete equations, and, as recently discovered, for t.he applications of integrable systems to continuous and discret. geometry. The primary motivation of the author was to formalize the approach to int.e- grable hierarchies that was developed in the context of the a-dressing method, preserving the analytic structures characteristic for this method, but omitting the peculiarit.ies of the constructive scheme. And it was desirable to find a start.-.

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